

QUALITY TECHNOLOGIES PRIVATE LIMITED

TECHNICAL DATA SHEET: **ALUFLUX 07**

PRODUCT DESCRIPTION

ALUFLUX 07 A is a general purpose tablet additive for degassing and nucleation of Aluminium alloys. In order to increase the mechanical properties of the aluminum alloys, it is necessary to reduce the pin hole porosity arising out of hydrogen presence, as well as increase the nucleation sites for better microstructure. **ALUFLUX 07 A** tablet contains Chlorine generating additives that degasses the metal and expels hydrogen gas, as well as salts of Titanium and Boron that aid in nucleation. **ALUFLUX 07 A** not only acts as degassing agent but also sweeps out the non metallic inclusions to the top of melt so that they can be easily discarded.

HOW TO USE

The degassing and nucleating operation has to be carried out when the entire metal is super heated and ready for final treatment before tapping. The tablet has to be plunged into the molten metal when it ready for tapping, by means of a perforated plunger and held in place till the tablet is totally consumed. The normal addition rate of this tablet is 0.1% to 0.2% of the molten metal. During the treatment, small quantity of smoke is generated due to generation of gases. As per Sivert's law Hydrogen solubility in the molten Aluminium increases with increase in temperature; hence it is not advisable to increase metal temperature after degassing. Instead desired superheat should be achieved before degassing itself. Choose the largest tablet size appropriate to your melt size for maximum efficiency.

INDICATIVE SPECIFICATIONS

PROPERTY	RANGE
Colour	Violet Colour
Melting point	187-190°C
Shelf Life	6 Months

PACKING DETAILS

ALUFLUX 07 is a violet coloured tablet available in tablet sizes of 50gm, 100gm, 500gm. As the product sublimes in air, tablets are wrapped tightly in an aluminum foil, and finally placed in 20kg Card Board Boxes.

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MATERIAL SAFETY DATA SHEET: **ALUFLUX 07**

- 1. IDENTIFICATION OF PRODUCT :-**
Trade Name & Use : ALUFLUX 07 A – Tableted Degassing & Nucleating Flux
Manufacturer / Supplier : QUALITY TECHNOLOGIES PVT. LTD.
No.34, Road No.1, IDA Mallapur, Nacharam P.O.,
Hyderabad – 500076. PH:040-27153888, 27155828
Fax: 040-27152567, email : info@qtecindia.com
Website:www.qtecindia.com
- 2. INFORMATION ON COMPOSITION** : Mixture of Halide salts
- 3. HAZARDS IDENTIFICATION :-**
Flammability : No
Auto Ignition Temperature : None
Corrosive Material : Partly corrosive upon prolonged exposure
Explosive Material : No
- 4. FIRST AID :-**
At inhalation, ingestion and contact with skin : Rinse with plenty of water and if suspect symptoms persist seek
Eye Contact : Medical advice.
- 5. FIRE – FIGHTING MEASURES :-**
Fire : Use water.
- 6. ACCIDENTAL RELEASE MEASURES :-**
: Spillage should be swept away and washed away with water wherever
required.
- 7. HANDLING STORAGE :-**
Handling & Storage precautions : Keep in a cool and dry place.
- 8. EXPOSURE CONTROLS / PERSONAL PROTECTION :-**
Route of Entry : Skin
Effects of Exposure : Constant exposure and inhalation cause mild irritation to the nose,
eyes and skin. Wash the affected area with lot of water and consult a doctor.
Personal protective equipment : Avoid direct contact with hands, use gloves wherever possible.
- 9. PHYSICAL AND CHEMICAL PROPERTIES :-**
Appearance : ALUFLUX 07 A is Violet in colour.
Physical state : Tablet
Odor : Semi Pungent Odour
- 10. STABILITY AND REACTIVITY:-**
Chemical Stability : Stable but sublimes/evaporates over a period of 4 – 5 Months
Incompatibility with : Incompatible with aluminium above 70° C ambient temp.
Other materials
Hazardous reaction product : Yes
- 11. TOXICOLOGICAL INFORMATION :-**
On product : No data available
On Ingredients : Contains Salts which are toxic.
- 12. ECOLOGICAL INFORMATION :-**
On product : No data available
On Ingredients : No data available
- 13. DISPOSAL CONSIDERATIONS :-**
Empty Cardboard boxes : Never use empty cardboard boxes for storing food stuffs or other
materials meant for human and animal consumption. Empty boxes may
be sold as scrap.
- 14. TRANSPORT INFORMATION :-**
: Non-dangerous product for transportation by road, sea, air.
Temperature should be less than 50°C.
- 15. REGULATORY INFORMATION :-** : No data available
- 16. OTHER INFORMATION :-** : No data available

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